

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/729,441A
Source: FW/6
Date Processed by STIC: 11/1/05

ENTERED



IFW

IFW16

RAW SEQUENCE LISTING

DATE: 11/01/2005

PATENT APPLICATION: US/10/729,441A

TIME: 11:45:56

Input Set : A:\10-729,441 Sequence Listing.txt

Output Set: N:\CRF4\11012005\J729441A.raw

3 <110> APPLICANT: ImmunoGen, Inc.
 5 <120> TITLE OF INVENTION: ANTI-IGF-I RECEPTOR ANTIBODY
 7 <130> FILE REFERENCE: A8689
 9 <140> CURRENT APPLICATION NUMBER: 10/729,441A
 10 <141> CURRENT FILING DATE: 2003-12-08
 12 <150> PRIOR APPLICATION NUMBER: 10/170,390
 13 <151> PRIOR FILING DATE: 2002-06-14
 15 <160> NUMBER OF SEQ ID NOS: 98
 17 <170> SOFTWARE: PatentIn version 3.3
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 5
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Artificial Sequence
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: antibody heavy chain complementarity determining region
 27 <400> SEQUENCE: 1
 29 Ser Tyr Trp Met His
 30 1 5
 33 <210> SEQ ID NO: 2
 34 <211> LENGTH: 17
 35 <212> TYPE: PRT
 36 <213> ORGANISM: Artificial Sequence
 38 <220> FEATURE:
 39 <223> OTHER INFORMATION: antibody heavy chain complementarity determining region
 41 <400> SEQUENCE: 2
 43 Glu Ile Asn Pro Ser Asn Gly Arg Thr Asn Tyr Asn Glu Lys Phe Lys
 44 1 5 10 15
 47 Arg
 51 <210> SEQ ID NO: 3
 52 <211> LENGTH: 15
 53 <212> TYPE: PRT
 54 <213> ORGANISM: Artificial Sequence
 56 <220> FEATURE:
 57 <223> OTHER INFORMATION: antibody heavy chain complementarity determining region
 59 <400> SEQUENCE: 3
 61 Gly Arg Pro Asp Tyr Tyr Gly Ser Ser Lys Trp Tyr Phe Asp Val
 62 1 5 10 15
 65 <210> SEQ ID NO: 4
 66 <211> LENGTH: 16
 67 <212> TYPE: PRT
 68 <213> ORGANISM: Artificial Sequence
 70 <220> FEATURE:
 71 <223> OTHER INFORMATION: antibody light chain complementarity determining region

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73 <400> SEQUENCE: 4
75 Arg Ser Ser Gln Ser Ile Val His Ser Asn Val Asn Thr Tyr Leu Glu
76 1          5          10          15
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 7
81 <212> TYPE: PRT
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: antibody light chain complementarity determining region
87 <400> SEQUENCE: 5
89 Lys Val Ser Asn Arg Phe Ser
90 1          5
93 <210> SEQ ID NO: 6
94 <211> LENGTH: 9
95 <212> TYPE: PRT
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: antibody light chain complementarity determining region
101 <400> SEQUENCE: 6
103 Phe Gln Gly Ser His Val Pro Pro Thr
104 1          5
107 <210> SEQ ID NO: 7
108 <211> LENGTH: 124
109 <212> TYPE: PRT
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: antibody heavy chain
115 <400> SEQUENCE: 7
117 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
118 1          5          10          15
121 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
122          20          25          30
125 Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
126          35          40          45
129 Gly Glu Ile Asn Pro Ser Asn Gly Arg Thr Asn Tyr Asn Glu Lys Phe
130          50          55          60
133 Lys Arg Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
134 65          70          75          80
137 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Phe
138          85          90          95
141 Ala Arg Gly Arg Pro Asp Tyr Tyr Gly Ser Ser Lys Trp Tyr Phe Asp
142          100          105          110
145 Val Trp Gly Ala Gly Thr Thr Val Thr Val Ser Ser
146          115          120
149 <210> SEQ ID NO: 8
150 <211> LENGTH: 113
151 <212> TYPE: PRT
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:

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155 <223> OTHER INFORMATION: antibody light chain

157 <400> SEQUENCE: 8

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159 Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
160 1          5          10          15
163 Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
164          20          25          30
167 Asn Val Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
168          35          40          45
171 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
172          50          55          60
175 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Arg Ile
176 65          70          75          80
179 Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Tyr Cys Phe Gln Gly
180          85          90          95
183 Ser His Val Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
184          100          105          110

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187 Arg

191 <210> SEQ ID NO: 9

192 <211> LENGTH: 113

193 <212> TYPE: PRT

194 <213> ORGANISM: Artificial Sequence

196 <220> FEATURE:

197 <223> OTHER INFORMATION: humanized light chain variable region

199 <400> SEQUENCE: 9

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201 Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
202 1          5          10          15
205 Asp Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
206          20          25          30
209 Asn Val Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
210          35          40          45
213 Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
214          50          55          60
217 Asp Arg Phe Ser Gly Ser Gly Ala Gly Thr Asp Phe Thr Leu Arg Ile
218 65          70          75          80
221 Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Tyr Cys Phe Gln Gly
222          85          90          95
225 Ser His Val Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
226          100          105          110

```

229 Arg

233 <210> SEQ ID NO: 10

234 <211> LENGTH: 113

235 <212> TYPE: PRT

236 <213> ORGANISM: Artificial Sequence

238 <220> FEATURE:

239 <223> OTHER INFORMATION: humanized light chain variable region

241 <400> SEQUENCE: 10

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243 Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
244 1          5          10          15
247 Asp Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser

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248          20          25          30
251 Asn Val Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
252          35          40          45
255 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
256          50          55          60
259 Asp Arg Phe Ser Gly Ser Gly Ala Gly Thr Asp Phe Thr Leu Arg Ile
260 65          70          75          80
263 Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Tyr Cys Phe Gln Gly
264          85          90          95
267 Ser His Val Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
268          100          105          110
271 Arg
275 <210> SEQ ID NO: 11
276 <211> LENGTH: 113
277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: humanized light chain variable region
283 <400> SEQUENCE: 11
285 Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
286 1          5          10          15
289 Asp Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
290          20          25          30
293 Asn Val Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
294          35          40          45
297 Pro Arg Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
298          50          55          60
301 Asp Arg Phe Ser Gly Ser Gly Ala Gly Thr Asp Phe Thr Leu Arg Ile
302 65          70          75          80
305 Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Tyr Cys Phe Gln Gly
306          85          90          95
309 Ser His Val Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
310          100          105          110
313 Arg
317 <210> SEQ ID NO: 12
318 <211> LENGTH: 113
319 <212> TYPE: PRT
320 <213> ORGANISM: Artificial Sequence
322 <220> FEATURE:
323 <223> OTHER INFORMATION: humanized light chain variable region
325 <400> SEQUENCE: 12
327 Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
328 1          5          10          15
331 Asp Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
332          20          25          30
335 Asn Val Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
336          35          40          45
339 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
340          50          55          60

```

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```

343 Asp Arg Phe Ser Gly Ser Gly Ala Gly Thr Asp Phe Thr Leu Arg Ile
344 65          70          75          80
347 Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Tyr Cys Phe Gln Gly
348          85          90          95
351 Ser His Val Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
352          100          105          110
355 Arg
359 <210> SEQ ID NO: 13
360 <211> LENGTH: 124
361 <212> TYPE: PRT
362 <213> ORGANISM: Artificial Sequence
364 <220> FEATURE:
365 <223> OTHER INFORMATION: humanized heavy chain variable region
367 <400> SEQUENCE: 13
369 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Val Lys Pro Gly Ala
370 1          5          10          15
373 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
374          20          25          30
377 Trp Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
378          35          40          45
381 Gly Glu Ile Asn Pro Ser Asn Gly Arg Thr Asn Tyr Asn Gln Lys Phe
382          50          55          60
385 Gln Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
386 65          70          75          80
389 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Phe
390          85          90          95
393 Ala Arg Gly Arg Pro Asp Tyr Tyr Gly Ser Ser Lys Trp Tyr Phe Asp
394          100          105          110
397 Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
398          115          120
401 <210> SEQ ID NO: 14.
402 <211> LENGTH: 46
403 <212> TYPE: DNA
404 <213> ORGANISM: Artificial Sequence
406 <220> FEATURE:
407 <223> OTHER INFORMATION: degenerate 3' light chain PCR primer - HindKL
409 <400> SEQUENCE: 14
410 tatagagctc aagcttggat ggtgggaaga tggatacagt tgggtgc          46
413 <210> SEQ ID NO: 15
414 <211> LENGTH: 36
415 <212> TYPE: DNA
416 <213> ORGANISM: Artificial Sequence
418 <220> FEATURE:
419 <223> OTHER INFORMATION: degenerate 3' heavy chain PCR primer- Bgl2IgG1
421 <400> SEQUENCE: 15
422 ggaagatcta tagacagatg ggggtgtcgt tttggc          36
425 <210> SEQ ID NO: 16
426 <211> LENGTH: 30
427 <212> TYPE: DNA

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/01/2005
PATENT APPLICATION: US/10/729,441A TIME: 11:45:57

Input Set : A:\10-729,441 Sequence Listing.txt
Output Set: N:\CRF4\11012005\J729441A.raw

Please Note:

One or more of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> <223> fields of each sequence which presents at least one n or Xaa.

Seq#:18; N Pos. 18
Seq#:19; N Pos. 18
Seq#:69; Xaa Pos. 28,101
Seq#:81; Xaa Pos. 20,34,43,50,52,54,57,59,99,100,103,104,105,106,107,108
Seq#:81; Xaa Pos. 116

VERIFICATION SUMMARY

DATE: 11/01/2005

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TIME: 11:45:57

Input Set : A:\10-729,441 Sequence Listing.txt

Output Set: N:\CRF4\11012005\J729441A.raw

164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
1642 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:16
1662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:96
2207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:16
2211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:32
2215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:48
2227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:96
2231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:112